

FORM PTO-1449 U.S. Department of Commerce
Patent and Trademark Office

Attorney Docket Number
9233-63

Serial No.
09/873,797

LIST OF DOCUMENTS CITED BY APPLICANT

(Use several sheets if necessary)

Applicants: Ekwuribe et al.

Filing Date: June 4, 2000

Group

U. S. PATENT DOCUMENTS

Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date if Appropriate
JR	1.	4,179,337	12/18/79	Davis et al.	435	181	
JR	2.	5,359,030	10/25/94	Ekwuribe	530	303	
JR	3.	5,405,877	04/11/95	Greenwald et al.	514	772.3	
JR	4.	5,567,422	10/22/96	Greenwald	424	78.3	
JR	5.	5,681,811	10/28/97	Ekwuribe	514	8	

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JR	X6.	Banting et al., "Pancreatic Extracts in the Treatment of Diabetes Mellitus," <i>Can. Med. Assoc. J.</i> , 12: 141-146 (1922).
JR	7.	H. Allcock & F. Lampe, "Contemporary Polymer Chemistry," 394-403 (2nd. ed., 1991).
JR	8.	Y. Chen & G. Baker, "Synthesis and Properties of ABA Amphiphiles," <i>J. Org. Chem.</i> , 64: 6870-6873 (1999).
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JR	Y1.	J. Milton Harris, "Laboratory Synthesis of Polyethylene Glycol Derivatives," <i>J. Macromol. Science - Rev. Macromol. Chem. Phys.</i> , C25(3): 325-373 (1985).

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EXAMINER

Jeffrey E. Russel

DATE CONSIDERED

January 31, 2004

Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if conformance and not considered. Include copy of this form with next communication to applicant.

Substitute form 1449A/PTO

INFORMATION DISCLOSURE
STATEMENT BY APPLICANT

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Sheet 1 Of



Complete if Known

Application Number	09/873,797
Filing Date	June 4, 2001
First Named Inventor	Ekwuribe
Group Art Unit	1651
Examiner Name	
Attorney Docket Number	9233.63

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Examiner Initials*	Cite No.	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code (if known)			
JR	1	4,223,163		Guilloty	09/16/1980	568/618
JR	2	4,801,575		Pardridge	01/31/1989	514/4
JR	3	5,099,074		Mueller et al.	03/24/1992	568/617
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JR	12	5,714,639		Bowman et al.	02/03/1998	568/620
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		Office	Number	Kind Code (if known)				
JR	15	DE	196 32 440 A1		BASF AG	02/19/1998		
JR	16	EP	0 822 218 A2		Glenn A. Miller, Michael W. Jorgenson, Richard Budnik	02/04/1998		
JR	17	JP	01207320 (Abstract Only)		Daicel Chem Ind Ltd.	08/21/1989		
JR	18	PCT	WO 01/12230		Myung-Ok Park, Kang Choon Lee	02/22/2001		

OTHER NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T
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Examiner Signature	Jeffrey E. Russel	Date Considered	January 31, 2004
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Sheet	2	Of	2	Application Number	09/079,794
				Filing Date	June 4, 2001
				First Named Inventor	Ekwuribe
				Group Art Unit	1711
				Examiner Name	Duc Truong
				Attorney Docket Number	9233.54

OTHER NON PATENT LITERATURE DOCUMENTS

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24	✓	Moghaddam, Amir, <i>Use of polyethylene glycol polymers for bioconjugations and drug development</i> , American Biotechnology Laboratory, pp. 42, 44 (July 2001)
25	✓	Neubauer, H. Paul, et al., <i>Influence of Polyethylene Glycol Insulin on Lipid Tissues of Experimental Animals</i> , Diabetes, Vol. 32, pp. 953-58 (October 1983)
26	✓	Shen, Wei-Chiang, et al., (C) Means to Enhance Penetration; (3) Enhancement of polypeptide and protein absorption by macromolecular carriers via endocytosis and transcytosis, <i>Advanced Drug Delivery Reviews</i> , Vol. 8, pp. 93-113 (1992)
27	✓	Sirokman, Geza, et al., <i>Refolding and proton pumping activity of a polyethylene glycol-bacteriorhodopsin water-soluble conjugate</i> , Protein Science, Vol. 2, pp. 1161-1170 (1993)
28	✓	Torchilin, Vladimir P., <i>Immunoliposomes and PEGylated Immunoliposomes: Possible Use for Targeted Delivery of Imaging Agents</i> , Immunomethods, Vol. 4, pp. 244-58 (1994)
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30	✓	Xia, Jiding, et al., <i>Effects of polyoxyethylene chain length distribution on the interfacial properties of polyethylene glycol n-dodecyl ether</i> , Yingyong Huaxue, Vol. 2, No. 4, pp. 59-65 (Abstract Only) (1985)
31	✓	Zalipsky, Samuel, et al., <i>Peptide Attachment to Extremities of Liposomal Surface Grafted PEG Chains: Preparation of the Long-Circulating Form of Laminin Pentapeptide, YIGSR</i> , Bioconjugate Chem., Vol. 6, pp. 705-8 (1995)

Examiner Signature	Jeffrey E. Russel	Date Considered	January 31, 2004
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Ekwuribe et al.

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1651

U. S. PATENT DOCUMENTS

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JSR	1.	5,349,052	09/20/94	Delgado et al.	530	351	
JSR	2.	6,042,822	03/28/00	Gilbert et al.	424	85.7	

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		Document Number	Date	Country	Class	Subclass	Translation Yes No
JSR	✓ 3.	WO97/14740	04/24/97	PCT	C08G	65/32	X

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

JSR	✓ 4.	International Search Report corresponding to PCT/US02/17567; Date of Mailing: September 19, 2002.					
JSR	✓ 5.	Vreeland et al., "Molar Mass Profiling of Synthetic Polymers by Free-Solution Capillary Electrophoresis of DNA-Polymer Conjugates," <i>Analytical Chemistry</i> , 73(8): 1795-1803 (April 15, 2001).					

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Electronic Version v18
Stylesheet Version v18.0

Title of
Invention

MIXTURES OF DRUG-OLIGOMER CONJUGATES
COMPRISING POLYALKYLENE GLYCOL, USES
THEREOF, AND METHODS OF MAKING SAME

Application Number: 09/873797
Confirmation Number: 2859
First Named Applicant: Nnochiri Ekwuribe
Attorney Docket Number: 9233.63
Art Unit: 1654

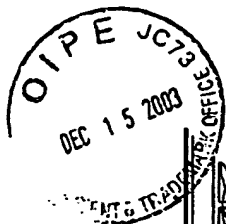


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US Patent Documents

Note: Applicant is not required to submit a paper copy of cited US Patent Documents

init	Cite.No.	Patent No.	Date	Patentee	Kind	Class	Subclass
<i>RL</i>	1	5292802	1994-03-08	Rhee et al.	525	54.1	
<i>RL</i>	2	5304473	1994-04-19	Belagaje et al.	435	69.7	
<i>RL</i>	3	5308889	1994-05-03	Rhee et al.	523	113	
<i>RL</i>	4	5312808	1994-05-17	Shorr et al.	514	6	
<i>RL</i>	5	5324775	1994-06-28	Rhee et al.	525	54.2	
<i>RL</i>	6	5328955	1994-07-12	Rhee et al.	525	54.1	
<i>RL</i>	7	5405621	1995-04-11	Sipos	424	490	
<i>RL</i>	8	5405877	1995-04-11	Greenwald et al.	514	772.3	

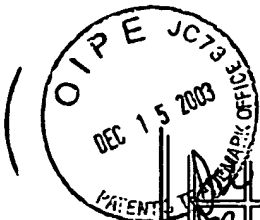


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10	5415872	1995-05-16	Sipos	424/490
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12	5444041	1995-08-22	Owen et al.	514/2
13	5446091	1995-08-29	Rhee et al.	525/54.1
14	5457066	1995-10-10	Frank et al.	435/68.1
15	5461031	1995-10-24	De Felippis	514/4
16	5504188	1996-04-02	Baker et al.	530/304
17	5506203	1996-04-09	Backstrom et al.	514/4
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Jeffrey E. Russell January 31, 2004

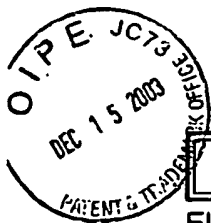
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Signature

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Search string: (3256153 or 3868356 or 3919411 or 3950517
or 4003792 or 4044196 or 4087390 or 4093574
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US Patent Documents

Note: Applicant is not required to submit a paper copy of cited US Patent Documents

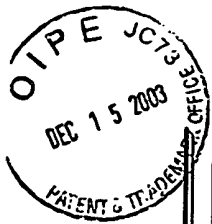
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RL	2	3868356	1975-02-25	Smyth		530	410
RL	3	3919411	1975-11-11	Glass et al.		424	213.1
RL	4	3950517	1976-04-13	Lindsay et al.		930	016.621
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January 31, 2004



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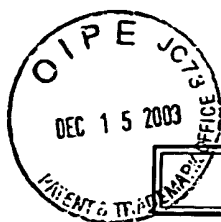
US Published Applications

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42	1	20020160938	2002-10-31	Brandenberg et al.		514/3	
42	2	20030144468	2003-07-31	Ekwuribe et al.		528/425	
42	3	20030087808	2003-05-08	Soltero et al.		514/3	
42	4	20030083232	2003-05-01	Soltero et al.		514/3	
42	5	20030069170	2003-04-10	Soltero et al.		514/2	
42	6	20030060606	2003-03-27	Ekwuribe et al.		530/399	
42	7	20030050228	2003-03-13	Ekwuribe et al.		514/3	
42	8	20030027995	2003-01-02	Ekwuribe et al.		530/399	
42	9	20030027748	2003-02-06	Ekwuribe et al.		514/3	
42	10	20030004304	2003-01-02	Ekwuribe et al.		528/425	

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Search string: (5902588 or 5905140 or 5907030 or 5922675
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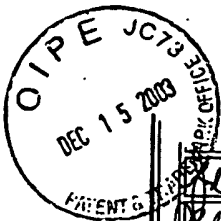
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PL	3	5907030	1999-05-25	Shen et al.	530	331	
PL	4	5922675	1999-07-13	Baker et al.	514	4	
PL	5	5932462	1999-08-03	Harris et al.	435	188	
PL	6	5942248	1999-08-24	Barnwell	424	457	
PL	7	5948751	1999-09-07	Kimer et al.	514	4	
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PL	10	5962267	1999-10-05	Shin et al.	435	67.4	
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RL	13	5981709	1999-11-09	Greenwald et al.	530/351
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RL	15	6004574	1999-12-21	Backstrom et al.	514/3
RL	16	6025235	2000-02-15	Kriva Campbell et al.	438/289
RL	17	6034054	2000-03-07	De Felippis et al.	514/4
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RL	26	6191105	2001-02-20	Ekwuribe et al.	514/3
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Signature

Examiner Name	Date
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